## Pilot Mercury Fever Thermometer Take Back Program

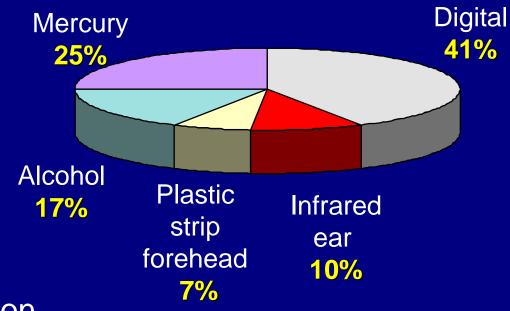


## Mercury Thermometer Take Back

- Stakeholder consultations
- Give consumers a means to properly dispose of mercury thermometers.
- Retail pharmacies are the appropriate venue for a thermometer return.
- Educate public on other mercury products used in the home.

## Fever Thermometers in Canadian Homes

There are about 2.7 million mercury fever thermometers in Canadian homes\* which is equal to approximately 2.7 tonnes



Total: 10.7 million thermometers

<sup>\*</sup> based on Environics Focus Canada survey of 2014 Canadian homes

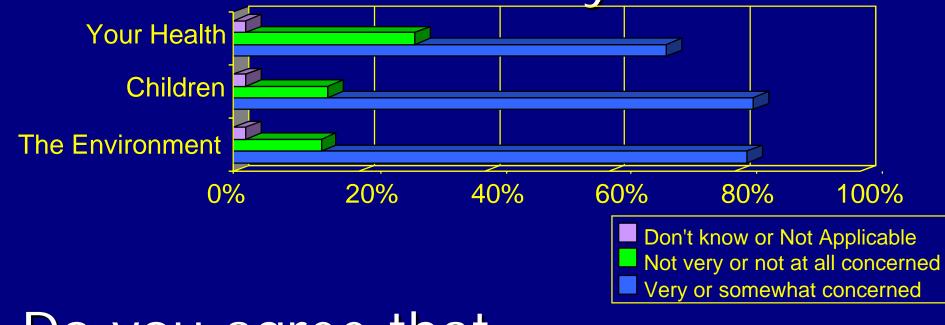
### **Broken Mercury Thermometers**

- 11% of those who have owned a mercury fever thermometer have broken one in the past five years.
- Up to 290,000 mercury fever thermometers could be broken in the next five years.
- Gaseous Elemental Mercury as an Indoor Air Pollutant <sup>1</sup>:
  - Exposure to mercury via indoor air is second only to fish consumption as a source of mercury in the general population.
  - Elevated mercury levels in study indicative of mercury from broken thermometers / thermostats.

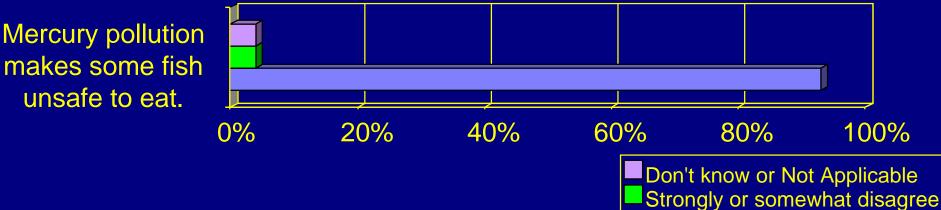
# What did people do with broken mercury thermometers?

	% of
Disposal Method	sample
Disposed of in the sink or household garbage	57%
Collected by hand or by using a cloth	17%
Disposed of at hazardous or special waste depot	12%
Someone else took care of it	8%
Used a vacuum cleaner to clean up	1%
Other / Don't Know / Did Nothing	13%

How concerned are you about the effect of mercury on...?



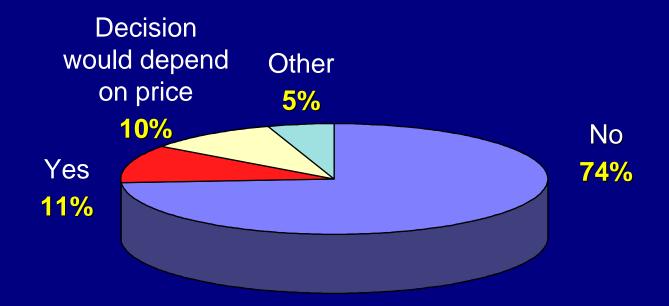
## Do you agree that...



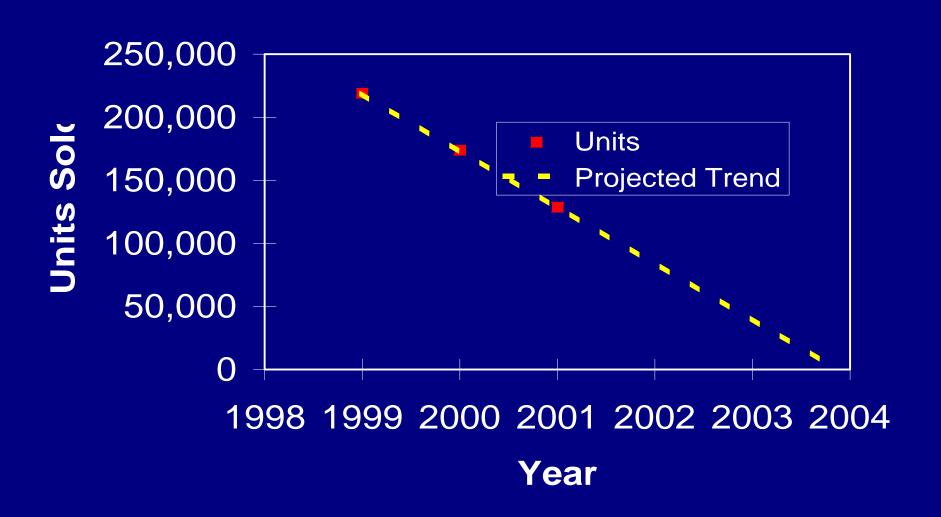
Strongly or somewhat agree

#### **Educating Consumers**

Would you have bought your mercury thermometer if you had known that mercury thermometers are potentially dangerous to children and the environment?



### Mercury Fever Thermometer Sales



### Pilot Program Outline

- Three Ontario cities with previous mercury program activities: Thunder Bay, Ottawa and London.
- February 15 to March 15, 2002.
- Pharmacists to collect and store thermometers.
- Hazardous Waste hauler collected thermometers for recycling or disposal.

### Pilot Program Agreement

#### Retailers

- Eliminate mercury thermometer sales;
- Provide employee time / training; and,
- Advertise, including coupons, as feasible.

#### EC offers to provide:

- Collection materials with spill kits;
- Waste hauling and disposal;
- Pamphlets, other promotion;
- Public survey.

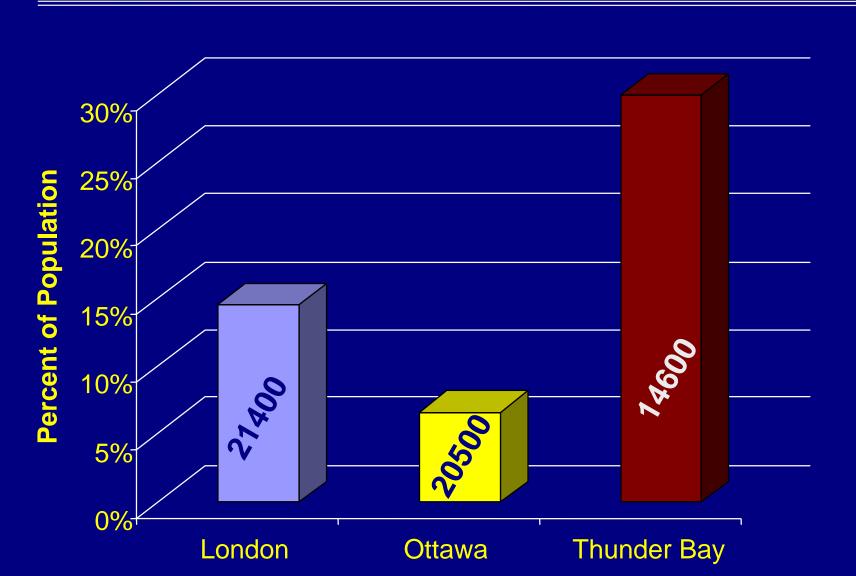
## Pharmacy Participation

- Over 100 pharmacies participated.
  - Wal-Mart
  - Shopper's Drug Mart
  - Pharma-Plus, Rexall, Medicine Shoppe
  - Medi-Plus
  - Plus 12 independent pharmacies
- Many decided to participate "last minute".
- Therefore, limited additional promotion directly by pharmacies.

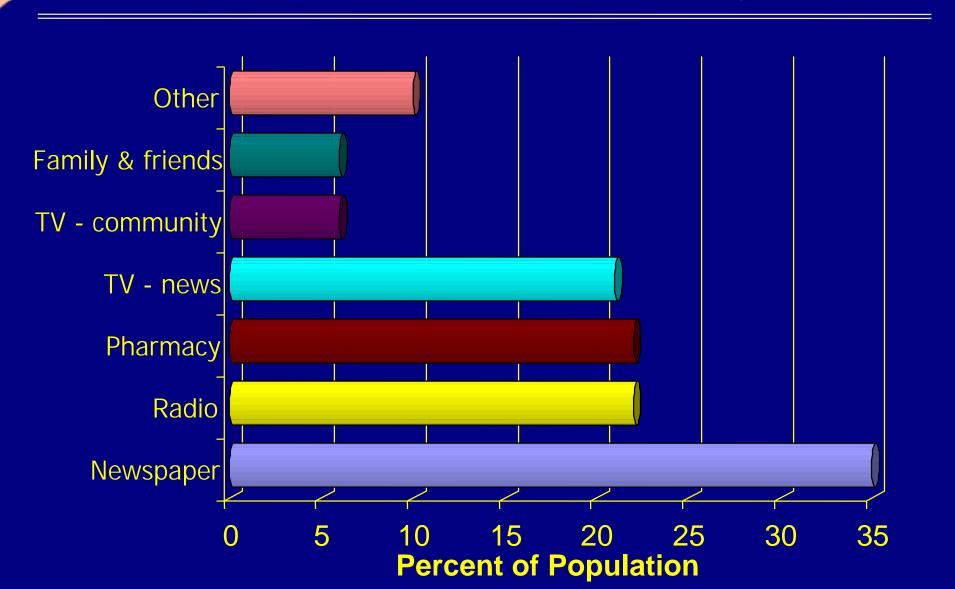
#### Results - Participation

- Overall, 1500 thermometers returned.
- Zero to 115 thermometers per pharmacy.
- Household participation rates:
  - London 2.9%
  - Ottawa 0.7%
  - Thunder Bay 2.5%

#### Results - Awareness



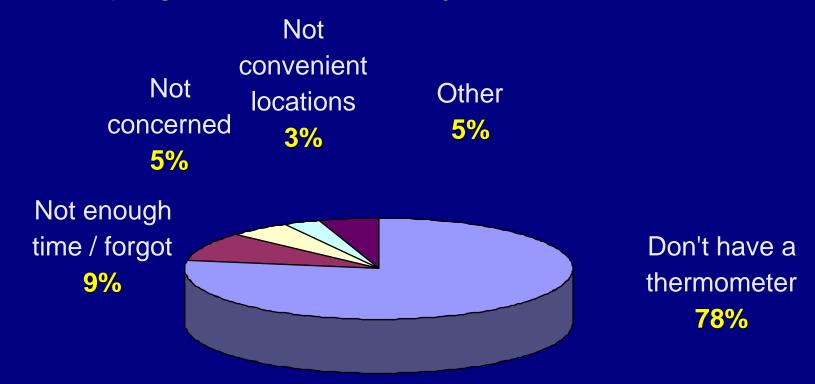
## Results - Awareness How did you hear about the program?



#### Results - Interest

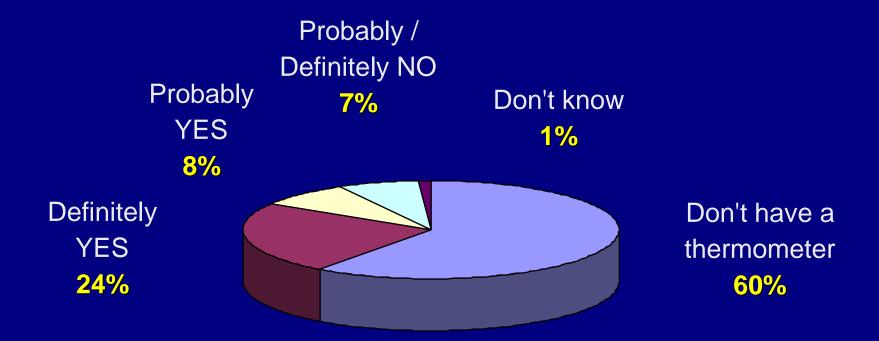
#### Heard about the program, did not participate.

(75 out of 454 surveyed - 17 respondents who heard about the program owned mercury thermometers)



#### Results - Interest

Those that did not hear about the program. Would they want to participate? (384 out of 454)



# "From the Field" Responses from Pharmacists

- Customers brought other products 16%
  - Accepted other products 4%
- Displayed brochure 41%
- Provided a coupon 14%
- Want to participate again 90%
- Don't want to participate:
  - Depends on head office 7%
  - Toxic 1%
  - Not our business 1%
  - Too much trouble 1%

#### Media Coverage

- Program launch in Ottawa with Minister of Environment.
- Newspaper articles, radio coverage.
- Local television Rogers Cable.
- Advertising in Thunder Bay, courtesy of EcoSuperior.

### Challenges

- Waste transportation requirements
- Coupons
- Timing
- Handling mercury thermometers within pharmacies
  - Spills
  - Biomedical
- Cost and participation rate

#### Path Forward

- Work towards eliminating sale voluntarily before next 'flu season
- Now have an outline for developing national program.
- Further work on cost reductions and exploring partners for National Take Back.



### Mercury and the Environment Web Site

#### For More information please visit:



www.ec.gc.ca/mercury www.ec.gc.ca/mercure